

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1 | 1. (Currently amended) A computer implemented method to facilitate
2 | suspending threads in a platform-independent virtual machine implemented on an
3 | operating system that lacks a global mechanism for suspending threads,
4 | comprising:
5 | scheduling a thread to execute that requires other threads to be suspended
6 | during execution; and
7 | in response to scheduling the thread,
8 | changing a scheduling policy for the thread, wherein
9 | changing the scheduling policy for the thread includes changing the
10 | scheduling policy from round-robin to first-in, first-out, and; ~~and~~
11 | raising a priority of the thread to a highest available
12 | priority, whereby changing the scheduling policy and raising the
13 | priority of the thread causes the thread to run to completion while
14 | other threads do not run.

1 | 2. (Currently amended) The computer implemented method of claim 1,
2 | further comprising:
3 | upon completion of the thread,
4 | reducing the priority of the thread to an assigned priority;
5 | and

6 returning the scheduling policy of the thread to an assigned
7 scheduling policy.

1 3. (Currently amended) The computer implemented method of claim 1,
2 wherein the thread requiring other threads to be suspended includes a garbage
3 collection thread.

1 4 (Canceled).

1 5. (Currently amended) The computer implemented method of claim 1,
2 wherein the operating system that lacks the global mechanism for suspending
3 threads includes POSIX.

1 6. (Currently amended) The computer implemented method of claim 1,
2 wherein the platform-independent virtual machine includes a JAVA VIRTUAL
3 MACHINE™.

1 7. (Currently amended) The computer implemented method of claim 1,
2 further comprising performing a garbage collection with the thread.

1 8. (Currently amended) A computer-readable storage medium storing
2 instructions that when executed by a computer cause the computer to perform a
3 method to facilitate suspending threads in a platform-independent virtual machine
4 implemented on an operating system that lacks a global mechanism for
5 suspending threads, the method comprising:
6 scheduling a thread to execute that requires other threads to be suspended
7 during execution; and
8 in response to scheduling the thread,

9 | changing a scheduling policy for the thread, wherein
10 | changing the scheduling policy for the thread includes changing the
11 | scheduling policy from round-robin to first-in, first-out, and; ~~and~~
12 | raising a priority of the thread to a highest available
13 | priority, whereby changing the scheduling policy and raising the
14 | priority of the thread causes the thread to run to completion while
15 | other threads do not run.

1 9. (Original) The computer-readable storage medium of claim 8, the
2 method further comprising:
3 upon completion of the thread,
4 reducing the priority of the thread to an assigned priority;
5 and
6 returning the scheduling policy of the thread to an assigned
7 scheduling policy.

1 10. (Original) The computer-readable storage medium of claim 8, wherein
2 the thread requiring other threads to be suspended includes a garbage collection
3 thread.

1 11 (Canceled).

1 12. (Original) The computer-readable storage medium of claim 8, wherein
2 the operating system that lacks the global mechanism for suspending threads
3 includes POSIX.

1 13. (Original) The computer-readable storage medium of claim 8, wherein
2 the platform-independent virtual machine includes a JAVA VIRTUAL
3 MACHINE™.

1 14. (Original) The computer-readable storage medium of claim 8, the
2 method further comprising performing a garbage collection with the thread.

1 15. (Currently amended) An apparatus that facilitates suspending threads
2 in a platform-independent virtual machine implemented on an operating system
3 that lacks a global mechanism for suspending threads, comprising:

4 a scheduling mechanism that is configured to schedule a thread to execute
5 that requires other threads to be suspended during execution;

6 a changing mechanism that is configured to change a scheduling policy for
7 the thread in response to scheduling the thread, wherein changing the scheduling
8 policy for the thread includes changing the scheduling policy from round-robin to
9 first-in, first-out; and

10 a priority raising mechanism that is configured to raise a priority of the
11 thread to a highest available priority in response to scheduling the thread, whereby
12 changing the scheduling policy and raising the priority of the thread causes the
13 thread to run to completion while other threads do not run.

1 16. (Original) The apparatus of claim 15, further comprising:

2 a priority reducing mechanism that is configured to reduce the priority of
3 the thread to an assigned priority; and

4 a returning mechanism that is configured to return the scheduling policy of
5 the thread to an assigned scheduling policy.

1 17. (Original) The apparatus of claim 15, wherein the thread requiring
2 other threads to be suspended includes a garbage collection thread.

1 18 (Canceled).

1 19. (Original) The apparatus of claim 15, wherein the operating system
2 that lacks the global mechanism for suspending threads includes POSIX.

1 20. (Original) The apparatus of claim 15, wherein the platform-
2 independent virtual machine includes a JAVA VIRTUAL MACHINE™.

1 21. (Original) The apparatus of claim 15, further comprising a garbage
2 collection mechanism that is configured to perform a garbage collection with the
3 thread.